

AMENDMENTS TO CLAIMS

Claims 1-51 - Cancelled

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Claim 52 (previously presented): A secure recording medium having at least one of audio, video and software content, comprising:

a plurality of media recording disks (DVD's) with a disk security chip embedded in each said DVD, each said disk chip comprising a security key, wherein at least two of said DVD's have different disk security keys;

a first antenna disposed in said DVD which is in electrical communication with said disk security chip;

a DVD player, said player comprising a second antenna which is in wireless communication with said first antenna; and

a player security chip in electrical communication with said second antenna, said player security chip being detachable from said DVD player.

Claim 53 (previously presented): The secure recording medium according to claim 52 and wherein said at least two of said DVD's have common content recorded therein.

Claim 54 (previously presented): The secure recording medium according to claim 52 and wherein said medium has audio content and video content and said security key is different for audio content than for video content.

Claim 55 (previously presented): The secure recording medium according to claim 52 and wherein said DVD is substantially statically balanced.

Claim 56 (previously presented): The secure recording medium according to claim 52 and wherein said DVD is substantially dynamically balanced.

Claim 57 (previously presented): The secure recording medium according to claim 52 and wherein said player security chip decrypts data received from said disk security chip.

Claim 58 (previously presented): The secure recording medium according to claim 52 and wherein said player security chip is integrated into a circuit of an integrated receiver decoder of said DVD player.

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Claim 59 (previously presented): The secure recording medium according to claim 52 and wherein said player security chip is generally tamper-resistant.

Claim 60 (previously presented): The secure recording medium according to claim 52 and wherein said player security chip is generally clone-resistant.

Claim 61 (previously presented): The secure recording medium according to claim 52 and wherein said player security chip is upgradable.

Claim 62 (previously presented): The secure recording medium according to claim 52 and wherein said player security chip is backwardly compatible with a previous version of at least one of said player security chip and said disk security chip.

Claim 63 (previously presented): The secure recording medium according to claim 52 and wherein said player security chip performs an authentication process with said disk security chip.

Claim 64 (previously presented): The secure recording medium according to claim 63 and wherein said player security chip verifies legitimacy of said disk security chip by means of a function of a geometric property of said DVD.

Claim 65 (previously presented): The secure recording medium according to claim 64 and wherein said function is selected from the group consisting of a function of an angle between layers of said DVD, a diameter of said DVD, a thickness of said DVD and an eccentricity of said DVD.

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Claim 66 (previously presented): The secure recording medium according to claim 52 and wherein said disk security chip performs an authentication process with said player security chip.

Claim 67 (previously presented): The secure recording medium according to claim 66 and wherein said authentication process comprises a mutual zero-knowledge interaction authentication process.

Claim 68 (previously presented): A secure recording medium comprising:

- a media recording disk (DVD) with a disk security chip embedded therein;
- a first antenna disposed in said DVD which is in electrical communication with said disk security chip; and

- a DVD player, said player comprising a second antenna which is in wireless communication with said first antenna,

- wherein said secure recording medium further comprises a player security chip in electrical communication with said second antenna, and

- said player security chip is detachable from said DVD player.

Claim 69 (previously presented): The secure recording medium according to claim 68 and wherein said player security chip decrypts data received from said disk security chip.

Claim 70 (previously presented): The secure recording medium according to claim 68 and wherein said player security chip is integrated into a circuit of an integrated receiver decoder

of said DVD player.

Claim 71 (previously presented): The secure recording medium according to claim 68 and wherein said player security chip is generally tamper-resistant.

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Claim 72 (previously presented): The secure recording medium according to claim 68 and wherein said player security chip is generally clone-resistant.

Claim 73 (previously presented): The secure recording medium according to claim 68 and wherein said player security chip is upgradable.

Claim 74 (previously presented): The secure recording medium according to claim 68 and wherein said player security chip is backwardly compatible with a previous version of at least one of said player security chip and said disk security chip.

Claim 75 (previously presented): The secure recording medium according to claim 74 and wherein said player security chip performs an authentication process with said disk security chip.

Claim 76 (previously presented): A secure recording medium comprising:

- a media recording disk (DVD) with a disk security chip embedded therein;
- a first antenna disposed in said DVD which is in electrical communication with said disk security chip;
- a DVD player, said player comprising a second antenna which is in wireless communication with said first antenna; and
- a player security chip in electrical communication with said second antenna, wherein said player security chip verifies legitimacy of said disk security chip by means of a function of a geometric property of said DVD.

Claim 77 (previously presented): The secure recording medium according to claim 76 and wherein said function is selected from the group consisting of a function of an angle between layers of said DVD, a diameter of said DVD and a thickness of said DVD.

Claim 78 (previously presented): A method for protecting access to content recorded on a media recording disk (DVD), comprising:

providing a disk security chip on the DVD, said disk security chip managing access to the content of the DVD;

providing a corresponding player security chip in a DVD player which is operative to play the DVD, said player security chip managing use of a data stream received from the DVD, said disk security chip being in wireless communication with said player security chip; and

providing said disk security chip with a disk key not known to a disk manufacturer.

Claim 79 (canceled)

Claim 80 (previously presented): The method according to claim 78 and comprising encrypting contents of said DVD with a content key.

Claim 81 (previously presented): The method according to claim 78 and comprising performing an authentication process between said disk security chip and said player security chip.

Claim 82 (previously presented): The method according to claim 81 and wherein said authentication process comprises a mutual zero-knowledge interaction authentication process.

Claim 83 (previously presented): The method according to claim 78 and wherein said disk

security chip, after assuring that said DVD player is authentic, sends said DVD player said disk key.

Claim 84 (previously presented): The method according to claim 78 and wherein said disk security chip, after assuring that said DVD player is authentic, sends said DVD player said disk key encrypted with said player key.

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Claim 85 (previously presented): The method according to claim 78 and wherein said player security chip verifies legitimacy of said disk key as a function of a geometric property of said DVD.

Claim 86 (previously presented): The method according to claim 85 and wherein said DVD is a multi-layer DVD and said geometric property is an angle between layers of said DVD.

Claim 87 (canceled)

Claim 88 (previously presented): A security method for use with a secure recording medium comprising a media recording disk (DVD) with a disk security chip embedded therein, a first antenna disposed in said DVD which is in electrical communication with said disk security chip, a DVD player, said player comprising a second antenna which is in wireless communication with said first antenna, and a player security chip in electrical communication with said second antenna, the method comprising:

said player security chip verifying legitimacy of said disk security chip by means of a function of a geometric property of said DVD.

Claim 89 (new): The secure recording medium according to claim 52 and wherein a disk key, Kd, is programmed in each said disk chip.

Claim 90 (new): The secure recording medium according to claim 89 and wherein Kd is specific to a particular disk of the plurality of media recording disks.

Claim 91 (new): The secure recording medium according to claim 52 and wherein each said disk chip is programmable after packaging in a commercial shipment package.

Claim 92 (new): The secure recording medium according to claim 52 and wherein each said disk chip is operative to check disk specific authorizations.

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Claim 93 (new): The secure recording medium according to claim 52 and wherein each said disk chip is operative, after verifying player authenticity, to send the player security chip a disk key, Kd, encrypted with a known player key.

Claim 94 (new): The secure recording medium according to claim 52 and wherein the player security chip is operative to send a random number to each said disk chip.

Claim 95 (new): The secure recording medium according to claim 52 and wherein each said disk chip is operative to send to the player chip a result of encrypting, with a disk key Kd, a content key and a hash function of a random number.
